Dr. Annette Lis

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University training and degree

2001	Licence to practice as a pharmacist (“Approbation”).
1996-2001	Study of Pharmacy, Saarland University.
1995-1996	Studies of Biology and Chemistry, Saarland University.

Advanced academic qualifications

Doctorate:	Ph.D. in Pharmacology, Saarland University, 2005, Prof.Dr.V.Flockerzi.

Postgraduate professional career

since 2019	Scientist, Institute of Biophysics, Saarland University.
2013-2019	Group leader, Significance of Calcium Signaling for Aging in Lymphocytes (DFG)
2012-2013	Scientist, Institute of Biophysics, Saarland University.
2011-2012	Return fellowship from the German Research Association (DFG).
2009-2011	Adjunct Assistant Professor, University of Hawaii Medical School, Department of Anatomy, Biochemistry and Physiology, Honolulu, Hawaii, USA.
2005-2009	Postdoc, Laboratory of Cell and Molecular Signaling, Center for Biomedical Research, The Queen`s Medical Center, University of Hawaii Medical School, Honolulu, Hawaii, USA, (Prof. Dr.R.Penner, Prof. Dr. A.Fleig).

Miscellaneous

2011-2012	Return fellowship from the German Research Association (DFG).
2008	Research fellowship Abroad (USA) in laboratory of Prof. Penner, Honolulu, USA.

Selected publications

1. Zophel D, Kaschek L, Steiner R, Janku S, Chang HF, **Lis A.** (2023). Heterozygous OT-I mice reveal that antigen-specific CD8⁺ T cells shift from apoptotic to necrotic killers in the elderly. *Aging Cell.* 2023 Mar 22:e13824. doi: 10.1111/acel.13824. Epub ahead of print.
2. **Lis A,** Zöphel D. (2023). Elderly CD8⁺ T cells in the focus for immunotherapeutic approaches. *Aging* (Albany NY). May 18;15(10):3899-3900. doi: 10.18632/aging.204747. Epub 2023 May 18.
3. Zophel, D, Angenendt, A, Kaschek, L, Ravichandran, K, Hof, C, Janku, S, Hoth, M, & **Lis, A.** (2022). Faster cytotoxicity with age: Increased perforin and granzyme levels in cytotoxic CD8(+) T cells boost cancer cell elimination. *Aging cell, 21*(8), e13668, doi: 10.1111/acel.13668.
4. Angenendt, A, Steiner, R, Knorck, A, Schwar, G, Konrad, M, Krause, E, & **Lis, A.** (2020). Orai, STIM, and PMCA contribute to reduced calcium signal generation in CD8(+) T cells of elderly mice. *Aging, 12*(4), 3266-3286, doi: 10.18632/aging.102809.
5. Zophel D, Hof C, **Lis A**. 2020. Altered Ca^{2+} Homeostasis in Immune Cells during Aging: Role of Ion Channels. *Int J Mol Sci.* Dec 24;22(1):110. doi: 10.3390/ijms22010110.

Past and present funding (five years)

DFG LI 1750/4-1 | LI 1750/4-2	2013-2019
HOMFOR	2020, 2023